

Application No. 10/070,198
Docket No. AA423
Filed 03/04/02
Amendment Dated 10/29/03
Office Action Dated: 04/29/03

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A rinse-off hair care composition comprising:
 - A. a polypropylene glycol having a weight average molecular weight of from about ~~200 g/mol to about 100,000~~ 1,000 g/mol to about 60,000 g/mol;
 - B. an ester oil of the formula:
$$R^1COOR^1 \quad (\text{Formula V}),$$
wherein each R^1 is independently a C_1 - C_{22} alkyl, and wherein the HLB value of the ester oil is less than about 4; and
 - C. a gel matrix comprising a cationic surfactant, a solid fatty compound, and water; further wherein the polypropylene glycol has a solubility in water of less than about 1 g/100 g water.
2. (currently amended) The rinse-off hair care composition of Claim 1, wherein the hair care composition reduces bulk hair area by at least about 10%, according to an Image Analysis Protocol.
3. (canceled)
4. (currently amended) The rinse-off hair care composition of Claim 1, further comprising an alkyl alkoxylate of the formula:
$$R^3-O-(R^2-O)_nH \quad (\text{Formula VI}),$$
wherein R^2 is independently a C_2 - C_4 alkyl group, wherein R^3 is an alkyl group having from about 1 to about 30 carbon atoms, wherein n is a value from about 1 to about 10, wherein the weight average molecular weight of the alkyl alkoxylate is less than about 500 g/mol, and wherein the HLB value of the alkyl alkoxylate is from about 5 to about 12.
5. (canceled)
6. (currently amended) The rinse-off hair care composition of Claim 1, further comprising a hydrophobically modified cellulose ether.

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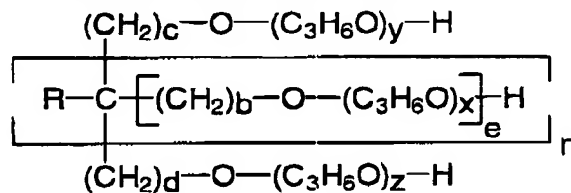
7. (currently amended) The rinse-off hair care composition of Claim 1, wherein the polypropylene glycol is selected from the group consisting of a single-polypropylene glycol-chain segment polymer, a multi-polypropylene glycol-chain segment polymer, and mixtures thereof,

wherein the single-polypropylene glycol-chain segment polymer has the formula:



wherein a is a value from about 4 to about 400, and

wherein the multi-polypropylene glycol-chain segment polymer has the formula:



(Formula II),

wherein n is a value from about 0 to about 10, wherein each R is independently selected from the group consisting of H, and C₁-C₃₀ alkyl, wherein each b is independently a value from about 0 to about 2, wherein c and d are independently a value from about 0 to about 2, wherein b + c + d is at least about 2, wherein each e is independently a value of 0 or 1, and wherein each x, y, and z is independently a value of from about 1 to about 120.

8. (currently amended) A rinse-off hair care composition comprising:
- A. a polypropylene glycol having a weight average molecular weight of from about ~~200 g/mol to about 100,000~~ 1,000 g/mol to about 60,000 g/mol;
 - B. an ester oil selected from the group consisting of a pentaerythritol ester oil, a trimethylol ester oil, and mixtures thereof, wherein the HLB value of the ester oil is less than about 4; and
 - C. a suitable carrier; further wherein the polypropylene glycol has a solubility in water of less than about 1 g/100 g water.
9. (currently amended) The rinse-off hair care composition of Claim 8, wherein the suitable carrier is a gel matrix comprising a cationic surfactant, a solid fatty compound, and water.
10. (currently amended) A rinse-off hair care composition comprising, by weight of the hair care composition:

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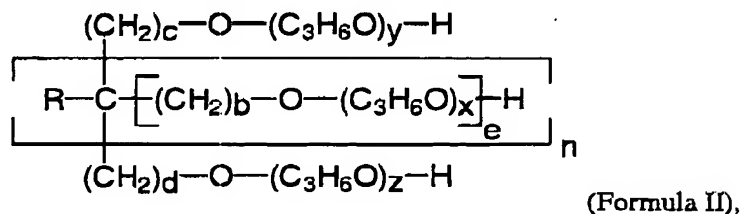
- A. from about 0.5% to about 10%, by weight, of a polypropylene glycol having a weight average molecular weight of from about ~~200 g/mol to about 100,000~~ 1,000 g/mol to about 60,000 g/mol, the polypropylene glycol being selected from the group consisting of a single-polypropylene glycol-chain segment polymer, a multi-polypropylene glycol-chain segment polymer, and mixtures thereof, and wherein the polypropylene glycol has a solubility in water of less than about 1 g/100 g water,

wherein the single-polypropylene glycol-chain segment polymer has the formula:



wherein a is a value from about 4 to about 400, and

wherein the multi-polypropylene glycol-chain segment polymer has the formula:



wherein n is a value from about 0 to about 10, wherein each R is independently selected from the group consisting of H, and C₁-C₃₀ alkyl, wherein each b is independently a value from ~~about 0 to about 2~~, wherein c and d are independently a value from ~~about 0 to about 2~~, wherein b + c + d is at least ~~about 2~~, wherein each e is independently a value of 0 or 1, and wherein each x, y, and z is independently a value of from about 1 to about 120;

- B. from about 0.5% to about 10% of an ester oil of the formula:



wherein each R¹ is independently a C₁-C₂₂ alkyl, and wherein the HLB value of the ester oil is less than about 4;

- C. from about 60% to about 99% of a gel matrix comprising a cationic surfactant, a solid fatty compound, and water, wherein the weight ratio of cationic surfactant to solid fatty compound is from about 1:1 to about 1:20; and

- D. the balance being other additional components,

wherein the viscosity of the hair care composition is from about 5,000 cps to about 40,000 cps, wherein the hair care composition is a rinse-off hair conditioning composition, and wherein the hair care composition reduces bulk hair area by at least about 10%, according to an Image Analysis Protocol.